

REMARKS

The Examiner's communication of April 2, 2007, together with the references cited therein, have been given careful consideration. After such consideration, and in an earnest effort to complete the prosecution of this application, various of the claims have been amended in accordance with the Examiner's suggestions. These include the suggestions made on pages 2 and 3 of the Examiner's communication. All of the suggestions proposed by the Examiner have been attended to with the sole exception of his comments with respect to the comment that "claim 9, after "fractional" portion." should be inserted. This objection is not understood by the Applicant and perhaps the Examiner might consider putting an Examiner's amendment or suggesting such an amendment in response to this communication.

Acronyms "FM, RF"

The Examiner, in page 2 of his communication, objected to the acronyms "FM, RF". The Examiner is respectfully requested to withdraw this objection since these are terms that are frequently used both in specifications as well as in claims as

is seen from the very prior art that the Examiner has cited, i.e., the Examiner is referred to the Hunsinger Patent No. 5,465,396 as well as the Kroeger Patent 6,898,249. Both of these patents cited by the Examiner include such acronyms without there being additional definitions in the claims. This is because the practice is accepted in this art.

**Drawing Objections**

The Examiner, at page 3 of his communication, objected to the drawings because the term "signal flow" is not located at the input of each circuit component. The Examiner is respectfully requested to withdraw this objection since, as is seen in the cited reference to Hunsinger 5,757,854 and Kroeger 6,898,249, no such terms are employed in the drawings in these patents. It is submitted that it is conventional in the art to not employ the term "signal flow" at the input of each circuit component.

The Examiner also objected to the element 30 in Applicants' Figure 2 et al. as being referred to in the specification as a "splitter". The Examiner is to take note that the term employed in Figure 2 at element 30 or element 40

refers to either a splitter or a summing device dependent upon the number of inputs and outputs to each element. Thus, as is well known in the art, the element is a splitter, if as used with respect to element 30, it has one input and two outputs. Also, if the element has two inputs and one output, then it is used as a summer, as in the case of element 40 in Figure 2. In view thereof, the Examiner is requested to remove this objection.

**Prior Art Rejection**

The Examiner rejected various of the claims herein over Hunsinger 5,757,854. Hunsinger is not suggestive of the Applicant's claimed invention as is seen from the discussion presented below.

The method described in Fig. 16 (Hunsinger) is for generating IBOC (in band channel) DAB (Digital Audio Broadcast) based on a technique known as AM over FM. It is not a technique to improve efficiency in broadcast transmitters.

The method described in Fig. 16 (Hunsinger) uses a modulator which is a MULTIPLIER (see Hunsinger at col. 9, line

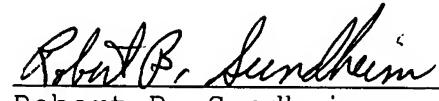
24) (and not a summer, important difference) to multiply the digital baseband signal 18 with a sample of the FM signal 14, generating the DSB-SC signal 20 which is then summed to the original FM carrier, obtaining an FM carrier with AM modulation on top.

The claimed invention herein uses a sample of the FM signal, and the SUMS it with the original carriers and only then sums this combined signal to the original FM signal.

In view of the foregoing, it is submitted that Applicant's claims 1-20 define patentable invention over the prior art cited by the Examiner and notification thereof is solicited.

Please charge any deficiency or credit any overpayment in the fees for this amendment to our Deposit Account No. 20-0090.

Respectfully submitted,

  
Robert B. Sundheim  
Robert B. Sundheim  
Reg. No. 20,127

TAROLLI, SUNDHEIM, COVELL,  
& TUMMINO, LLP  
(216) 621-2234  
(216) 621-4072 (Facsimile  
**Customer No. 26294**